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follwer adapted to apply a voltage between the electrodes, wherein the voltage reflects previous values of a current flowing between electrodes.

3. (Amended) A corrosion monitor according to claim 1 in which the current is measured by the voltage follower.

4. (Amended) A corrosion monitor according to claim 3 in which the voltage is proportional to an integration of the current and an output of the voltage follower is introduced to an integrating circuit.

5. (Amended) A corrosion monitor according to claim 4 in which the output of the integrating circuit is introduced to the voltage follower for application to the working electrode.

6. (Amended) A corrosion monitor, comprising a pair of electrodes and electronic circuitry arranged such that DC current flowing between the electrodes is reduced to essentially zero, while allowing any naturally occurring AC current noise to flow unhindered to be monitored.

7. (Amended) A corrosion monitor according to claim 6 in which the electrodes comprise of one substantially inert reference electrode, and one working electrode constructed of a material to be monitored.

8. (Amended) A corrosion monitor according to claim 7 in which a voltage potential is monitored between the inert reference electrode and a third electrode constructed of a substantially inert material.

Please cancel claim 9.

Please add new claim 10 as follows:

10. (New) A corrosion monitor according to claim 1 in which a voltage potential is monitored between the inert reference electrode and a third electrode composed of a substantially inert material.